

FORM PTO-1390
(REV. 10-2003)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

YOSHID0018

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

10/500373

INTERNATIONAL APPLICATION NO.
PCT/JP02/13815INTERNATIONAL FILING DATE
December 27, 2002PRIORITY DATE CLAIMED
December 27, 2001TITLE OF INVENTION METHOD OF CALCULATING OCCURRENCE FREQUENCY OF SEQUENCE, METHOD OF CALCULATING
DEGREE OF ISOLATION AND METHOD OF ESTIMATING DEGREE OF ADEQUACY FOR PRIMER

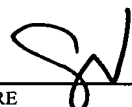
APPLICANT(S) FOR DO/EO/US Shinichi MORISHITA and Tomoyuki YAMADA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☒ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
PCT/IB/308, PCT/IPEA/416, Article 19 Amendment (10 pages), Certificate of All Present Records of
Registration (2 pages)

U.S. APPLICATION NO. (if any) 10/500373 INTERNATIONAL APPLICATION NO. PCT/JP02/13815		ATTORNEY'S DOCKET NUMBER YOSHID0018																															
21. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. \$1080.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$920.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$770.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$730.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =		CALCULATIONS PTO USE ONLY																															
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ 920.00																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 15%;">NUMBER FILED</th> <th style="width: 15%;">NUMBER EXTRA</th> <th style="width: 15%;">RATE</th> <th style="width: 15%;">\$</th> <th style="width: 15%;"></th> </tr> <tr> <td>Total claims</td> <td>25 - 20 =</td> <td>5</td> <td>x \$18.00</td> <td>\$ 90.00</td> <td></td> </tr> <tr> <td>Independent claims</td> <td>8 - 3 =</td> <td>5</td> <td>x \$86.00</td> <td>\$ 430.00</td> <td></td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$290.00</td> <td>\$ -0-</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 1,440.00</td> <td></td> </tr> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$		Total claims	25 - 20 =	5	x \$18.00	\$ 90.00		Independent claims	8 - 3 =	5	x \$86.00	\$ 430.00		MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$290.00	\$ -0-		TOTAL OF ABOVE CALCULATIONS =				\$ 1,440.00		\$ -0-	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$																													
Total claims	25 - 20 =	5	x \$18.00	\$ 90.00																													
Independent claims	8 - 3 =	5	x \$86.00	\$ 430.00																													
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$290.00	\$ -0-																													
TOTAL OF ABOVE CALCULATIONS =				\$ 1,440.00																													
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$																															
SUBTOTAL =		\$ 1,440.00																															
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ -0-																															
TOTAL NATIONAL FEE =		\$ 1,440.00																															
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$ -0-																															
TOTAL FEES ENCLOSED =		\$ 1,440.00																															
		Amount to be refunded: \$																															
		charged: \$																															
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. <u>501281</u> in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>501281</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																																	
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.																																	
SEND ALL CORRESPONDENCE TO: Joerg-Uwe Szipl Griffin & Szipl, P.C. 2300 Ninth Street South Suite PH-1 Arlington, VA 22204		SIGNATURE  _____ NAME Joerg-Uwe Szipl _____ 31,799 _____ REGISTRATION NUMBER																															
Date: June 28, 2004																																	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,440.00
Complete if Known

Application Number: **01/09 PCT/PTO 28 JUN 2004**
 Filing Date: June 28, 2004
 First Named Inventor: Shinichi MORISHITA et al
 Examiner Name:
 Art Unit:
 Attorney Docket No.: YOSHID0018

METHOD OF PAYMENT (check all that apply)
☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None
☒ Deposit Account:
 Deposit
Account
Number
Deposit
Account
Name

501281

Griffin & Szipl, P.C.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.
FEE CALCULATION**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	920.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$) 920.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
25	-20** = 5	18	90
Independent Claims	8	-3** = 5	86
Multiple Dependent		-0-	-0-

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 520.

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) -0-
SUBMITTED BY

(Complete if applicable)

Name (Print/Type): Joerg-Uwe Szipl
 Registration No. (Attorney/Agent): 31,799
 Telephone: 703-979-5700
 Signature: 
 Date: June 28, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Certificate of All Present Records of Registration

TOUDAI TLO, Ltd.

3-1, Hongo 7-chome, Bunkyo-ku, Tokyo

Corporate code: 0199-01-020853

Corporate name	<u>The Center for Advanced Science and Technology Incubation, Ltd.</u>	
	TOUDAI TLO, Ltd.	Renamed on April 1, 2004 Registered on April 9, 2004
Head office	<u>5-1, Marunouchi 1-chome,</u> <u>Chiyoda-ku,</u> <u>Tokyo</u>	Relocated on April 1, 1999 Registered on June 4, 1999
	3-1, Hongo 7-chome, Bunkyo-ku, Tokyo	Relocated on April 1, 2004 Registered on April 9, 2004
Manner of public notice	To be placed in the Official Gazette (Kanpo)	
Date of establishment	August 3, 1998	
Purposes	1. Collection, analysis, evaluation and provision of information concerning intellectual property rights, including industrial property rights, copyrights, technological information and others 2. Conclusion, maintenance and administration of agreements for licensing the aforesaid intellectual property rights 3. All other businesses incidental to any of the foregoing purposes	
Maximum number of shares to be issued	800 shares	
Total number of the issued and outstanding shares and their kinds and numbers	Total number of the issued and outstanding shares 400 shares	Changed on July 1, 2001
		Registered on July 10, 2001
Amount of capital	20 million yen	Changed on July 1, 2001
		Registered on July 10, 2001
Provisions for restriction on transfer of shares	Transfer of the company's shares shall be subject to approval by the company's board of directors.	
Details of directors and auditors	Takafumi Yamamoto, Director	Reelected on March 24, 2004 Registered on April 9, 2004
	Kunihiro Matsuda, Director	Reelected on March 24, 2004 Registered on April 9, 2004

	Keiko Honda, Director	Reelected on March 24, 2004 Registered on April 9, 2004
	Takafumi Yamamoto, Representative Director Lions' Mansion Kokubunji Keyaki Koen, 509, 33-14, Higashi-Koigakubo 2-chome, Kokubunji-shi, Tokyo	Reelected on March 24, 2004 Registered on April 9, 2004
	Junji Annen, Statutory Auditor	Reelected on February 25, 2002 Registered on March 25, 2002
	Akimitsu Hirai, Statutory Auditor	Reelected on February 25, 2002 Registered on March 25, 2002

This instrument certifies that the foregoing statements show all the records of registration that are currently in effect.

April 19, 2004

Seiichi Yoshioka, Registrar
Tokyo Legal Affairs Bureau